



Docket No.

000560.00123

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takefumi SUZUKI

SERIAL NO: 10/644,729

FILED: August 21, 2003

FOR: PERIPHERAL LENGTH CORRECTION DEVICE OF METAL RINGS

GAU:

3681

EXAMINER:

Unassigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS

P.O. BOX 1450

ALEXANDRIA, VA 22313-1450

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a copy of applicant's pending application(s) or issued patent(s) which may be related to the present application. These documents are listed on form PTO-1449, also attached.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.
- ☒ This Information Disclosure Statement is being filed within three months of the filing date of the subject patent application.
- ☒ This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 23-2185. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

BLANK ROME LLP

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27557

PATENT TRADEMARK OFFICE

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Date: December 23, 2003

O8/01



Form PTO 1449  
(Modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
000560.00123

SERIAL NO.  
10/644,729

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT Takefumi SUZUKI

FILING DATE  
August 21, 2003

GROUP  
3681

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOC. NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

### FOREIGN PATENT DOCUMENTS

		DOC. NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	JP11-290971	26 October 1999	Japan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	AP	JP2001-105050	17 April 2001	Japan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	AQ	JP2002-178008	25 June 2002	Japan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	AR				<input type="checkbox"/>	<input type="checkbox"/>
	AS				<input type="checkbox"/>	<input type="checkbox"/>
	AT				<input type="checkbox"/>	<input type="checkbox"/>
	AU				<input type="checkbox"/>	<input type="checkbox"/>
	AV				<input type="checkbox"/>	<input type="checkbox"/>

### OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:	)	
	)	
Takefumi SUZUKI	)	Group Art Unit: 3681
	)	
U.S. Serial No.: 10/644,729	)	Examiner: <i>Unassigned</i>
	)	
Filed: August 21, 2003	)	
	)	
For: PERIPHERAL LENGTH CORRECTION	)	Docket No. 000560.00123
DEVICE OF METAL RINGS	)	

**STATEMENT OF RELEVANCY OF JAPANESE REFERENCES**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Date: December 23, 2003

Sir:

The following patent documents are cited in the Information Disclosure

Statement submitted with this statement:

1. Japanese Patent Application (Laid-open – Kokai) JP11-290971  
Title: METHOD FOR CORRECTING PERIPHERAL LENGTH OF METALLIC  
BELT APPARATUS THEREFOR  
Publication Date: 1999 10-26  
Application Number: JP10-102428 1998 04-14  
IPC: B21D 31/00, B21D 53/14  
Applicant: Honda Motor Co. Ltd.

The applicant has reviewed the reference and provides the following statement  
of relevance:

PROBLEM TO BE SOLVED: To continuously correct and measure the peripheral length of a metallic belt, to facilitate the control, and to improve the production efficiency.

SOLUTION: The loads of weights 70a, 70b are applied to a metallic belt 100, and the displacement of a driven roller 48 is measured by a first displacement sensor 56 to obtain the peripheral length of the metallic belt 100. Then, a correction roller 84 is displaced in the direction of an arrow D to correct the peripheral length of the metallic belt 100. The displacement of the correction roller 84 is measured by a second displacement sensor 88 to measure the peripheral length of the metallic belt 100 in this condition. The correction roller 84 is displaced in the direction of an arrow C, the loads of the weights 70a, 70b are applied again to the metallic belt 100, and the displacement of the driven roller 48 is measured by the first displacement sensor 56 to obtain the peripheral length of the metallic belt 100.

2. Japanese Patent Application (Laid-open Kokai)  
JP2001-105050  
Title: METHOD FOR PERIPHERAL LENGTH OF METAL RING  
Publication Date: 2001 04-17  
Application Number: JP11-288277 1999 10-08  
IPC: B21D 31/00  
Applicant: Honda Motor Co. Ltd.

The applicant has reviewed the reference and provides the following statement of relevance:

PROBLEM TO BE SOLVED: To provide a peripheral length correction method capable of easily and reliably correcting the peripheral length of a metal ring to a desired value and improving a yield.

SOLUTION: A metal ring W is hung over a drive roller 2, a driven roller 3 and a correction roller 4. The drive roller 2 and the driven roller 3 are held at a prescribed interval. The correction roller 4 is displaced by a prescribed displacement quantity with respect to the reference value of the peripheral length of a metal ring W in the direction orthogonal to the displacing direction of the drive roller 2/driven roller 3 and in the direction elongating the metal ring W to correct the peripheral length of the metal ring W. An actual length of the metal ring W is measured in the state that the ring W is tensed by the rollers 2, 3. By comparing the actual length and the reference value of the length of the ring W, the difference between both is obtained. Corresponding to the difference between the actual length and the reference value, the displacement quantity of the correction roller 4 is corrected. The correction roller 4 maintains the corrected displacement quantity for a prescribed time.

3. Japanese Patent Application (Laid-open – Kokai)  
JP2002-178008  
Title: METHOD FOR ROLLING METALLIC RING  
Publication Date: 2002 06-25  
Application Number: JP2000-387841 2000 12-20  
IPC: B21B 5/00, B21D 53/16  
Applicant: Honda Motor Co. Ltd.

The applicant has reviewed the reference and provides the following statement of relevance:

**PROBLEM TO BE SOLVED:** To provide a rolling method by which rolling is stably performed even when there is a difference between both circumferential lengths of a metallic ring and the difference between the circumferential lengths is easily corrected.

**SOLUTION:** The circumferential lengths on both peripheral edges 9a, 9b of the metallic ring W are measured and compared. In tension rollers 2a, 2b having circular-arcuate outer peripheral surfaces 6a, 6b which are convex in a cross-sectional view in the middle part, the center line of the roller 2b is displaced from the center line of the roller 2a. The metallic ring W is stretched over the tension rollers 2a, 2b so that the peripheral edge on the short side of the circumferential lengths of the metallic ring W is situated in the vicinity of the center line of the displaced roller 2b and the center line of the metallic ring W is made to coincide with the center line of the roller 2a. By rolling the metallic ring W with a center roller 4 which is provided at mid-point of the tension rollers 2a, 2b and rolling roller 5, load for making plastic deformation possible is imparted to the metallic ring W. By rotationally driving the

metallic ring W with the rolling roller 5, both peripheral edges are corrected into an equal peripheral length. The roller 2a is displaced by changing a shim.

Respectfully submitted,

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Attachments

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